



SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: ZENECA LIMITED ., . .

(ii) TITLE OF INVENTION: GENE SILENCING

(iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS

(B) STREET: JEALOTTS HILL RESEARCH STATION,

(C) CITY: BRACKNELL,

(D) STATE: BERKSHIRE

(F) ZIP: RG42 6ET

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: GB NOT KNOWN

(B) FILING DATE:

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: HUSKISSON, FRANK M

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 01344 414822

(2) INFORMATION FOR SEQ ID NO:1:

(A) LENGTH: 3681 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID

OXIDASE

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTOM13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AAATTTGATA GATTCAGTTT TTATGTTTTT AGTGCTGATT ACAACATTGA AATTCTAAAT  
60

TTAGAATTTA ATATTTATTA AATGTTAGTG CATTTATACA AATAACATAT TACATCTCAA  
120

ATAATATTGA GTTTGTTAGA TTTTATTTGC CCTGATTCT TATCATAAAT AGGTTTTCTT  
180

TTTAGGAAAA GGTTTTGAAT TGACTATTCT TTTTTTGGTA GGAAAAAGTT TAGGACTCTA  
240

TAAATAGAGG CATGTTCTT CTAACCTAAT TAGCATTAC AATGTAGTTT TAAGGGCTTT  
300

GAGAGTTTTT GTTAGAGGGA GAATTTGTGA ACCTCTCATG TATTCGAGT GAATTGGTTG  
360

AGTTGTTTCT CCTCTGTATT TTGTAATCTC ATGTTTATAG TGGATTGCTC ATTTCTTTTG  
420

TGGACGTAGG TCGATTGACC GAACCAAGTT AAATTTTGT GTCTTTTGGT ATATTTCTTG  
480

TTCTTCTTAC TCGTGGTCTT TCGAGGTTTG CTTTGCTAGG TTCCGGGTTT ACACCTGCTT  
540

ATTTTCGGTC CTAACAAGTG GTATCAGAGC CAGATTCAAT AATGGAGTCA GGTGTAGTGG  
600

TTTGATAATC GATGATTGAA CCAAGTTAGA AAGAGGTGTT CATCTTGACG GGTGTAGTTC  
660

TAGCCGCAAC CTTTTTGACA GTAATGAAGA TTTTGATGGA GAAATTGTTT CAGAGAGGTT  
720

CTCTGTGTTG AGACATAAAT TTTGTAAAGG AGATTATGGA GAGGAGAAGC AAGTTGTTGA  
780

AGATTAAGTA AAGAAGGTGG ACAAATCTAT TTTGTGAGAA ATTCAGGCCA AGGGGGAGAT  
840

TTGTTGGGTT TTATTTGCCC TGATTTTTTA CCATAAATAG GTTTTCCTTT AAGGAAAAGG  
900

TTTTGAATTG ACTATTCTTT TTTTGGTAGG AAAAGGTTTA GGATTCTATA AATAGAGGCA  
960

TGTTCCCTCT AACTTAATTA GCATTCACAA TGTAGTTTTA AGGGCTTTGA GAGTTTTGGT  
1020

TAGAGGGAGA ATTTGTGAAC CTCTCATGTA TTCCGAGTGA ATTGGTTGAG GTTGTTTCCC  
1080

TCTGTATTTT GTACTCTCAT GTTTATAGTG GATTGCTCAT TTCCTTTGTG GACGTAGGTC  
1140

GATTGACCGA ACCACGTAA ATCTTTGTGT CTTTTGGTAT ATTTCTCGTT GTCTTCTTAC  
1200

TCGTGGTCTT TCGAGGTTTG CTTTGCTAGC TTCCGCGTTT ACACCTGCTT ATTTGCGGTC  
1260

CTAACAGAGT TCGATGGGTT GAATCTATAA AAAGAAAAAT ATACTCGTGA TTCACGATTA  
1320

TTTATATGAA AATATAATAA ATATTGAATT TCCTTTGCTA TTTCTTATGT TTACGTCTTT  
1380

ATATTTTAAA TTATTCCACC AATACTGACA AGCCCTAGGC CATCTCTAGG AAATTCTATC  
1440

AAATTTTTTT TTGTTGTAA CTAGTTAAAT TGGCAGCCTT AAAATATTATT GTAAAAATCA  
1500

AGGCAACTTC CTCAAGTACT ACAACTACAT TGTAACATCC CAGTCAAAGT GTCCTAAAAT  
1560

TTTATAAAAT TTGACACATG AAACAATAGC ACAATAAATT TTAGTACTAT TGCAGCCATG  
1620

GCCCCATAAGC CATCATGTAT TATAGTCAAA ATGGGTCCTT TTCCAATTTG TCTTGATCCC  
1680

AAAATCCCTT TGTAGGTAAG ATGGTTCAAC AAGGAACTAT GACTCTTAAG GTAGACTTGG  
1740

ACTCATAGAC TTGTCATAAC TCATAAAGAC TTGGAATATA ATAATTATTC ATTTAAATTA  
1800

TAATTCTCTA CTTTAATATC TTCTACTATA AATACCCCTT CAAAGCCTCA TTATTTGTAC  
1860

ATCAAACATT GATATTCATC TCTTCAATCT TTTGTATTCA CATATTCTAT TTATTCAATA  
1920

CACTTAGGAA AACACTTTAC CAAGAAATTA AGATGGAGAA CTTCCCAATT ATTAACCTGG  
1980

AAAAGCTCAA TGGAGATGAG AGAGCCAACA CCATGGAAAT GATCAAAGAT GCTTGTGAGA  
2040

ATTCCSCCTT CTTTGAGGTA ATCATAAATT ACATAAACAT ATTAATATGT TTGTTTCAAT  
2100

TTATCAGTCA TACTTTTCTC TGTTTTAAAA TTAATGTCAC TTTCAATATT TAATAATTCG  
2160

CATGACATGT TTATAACACA ACAAGATATA GGTTACATTT TGATACATTA TATATAACTT  
2220

CTGTCACACG ACTCAAAAGT CTTTCTTAAT TTCTTGAATT CAATGATCGA TCAAACCTAAG  
2280

ACACGTAAAA TGAAACGGGG AATAGTAATT CTGTTTGCTT ATGTGATCAT TGTAGTTGGT  
2340

GAACCATGGA ATTCCACATG AAGTAATGGA CACAGTAGAG AAAATGACAA AGGCACATTA  
2400

CAAGAAGTGC ATGGAACAGA GGTTTAAGGA ACTAGTGGCA AGTAAGGGAC TTGAGGCTGT  
2460

TCAAGCTGAG GTTACTGATT TAGATTGGGA AAGCACTTTC TTCTTGCGGC ATCTTCCTAC  
2520

TTCTAATATC TCTCAAGTAC CGGATCTTGA CGAABAATAC AGGTACATAC ATGTGTCTTA  
2580

CATATTGCGT ATATAATAAA TAAACACAAA ATTTAAGTTA TATACGCTGA CAGTATAACT  
2640

AATTATAATG TTGTACCAAA TGATGCAGAG AGGTGATGAG AGATTTTGCT AAAAGATTGG  
2700

AGAAATTGGG TGAGGAGTTA CTTGACTTAC TCTGTGAAAA TCTTGGA CT T GAA AAAAGGTT  
2760

ACTTGAAAAA TGCCTTTTAT GGATCAAAAG GTCCCAACTT TGGTACTAAA GTTAGCAACT  
2820

ATCCACCATG TCCTAAGCCC GATTTGATCA AGGGA CT CCG CGTCATACA GACGCAGGAG  
2880

GCATCATACT TCTGTTCCAA GATGACAAAG TGAGTGGCCT TCAACTCCTC AAAGACGAGC  
2940

AATGGATCGA TGTTCCTCCC ATGGGCCACT CTATTGTGGT TAACCTTGGT GACCAACTTG  
3000

AGGTACAAGA TTCACTAAGT GTGTGTGTTT TTATCACTAT AACTTAGAAG TAGTAACTAA  
3060

AAATGGTATT AATGAAATGT TATAAAAACA GGTGATCACT AACGGGAAGT ACAAGAGTGT  
3120

CCTCCACACA STAATTCCAC AACAGACGG GACACGAATG TCATTAGCCT CATTTTACAA  
3180

TCCAGGAAGT GATGCAGTAA TATATCCAGC AAAA CT TTG GTTGAAAAAG AGGCAGAGGA  
3240

AAGTACACAA GTGTATCCAA AGTTTGTGTT TGATGATTAC ATGAAGTTAT ATGCTGGACT  
3300

CAAGTTTCAA GCCAAAGAGC CAAGATTTGA AGCAATGAAG GCAATGGAAA GTGATCCAAT  
3360

TGCAAGTGCT TAGATCCCAA TTCAATTAAA AAAATTGGTG TTTGAAAAAT ATATTTAAAT  
3420

ATAGCAATCT ATGTATACAC ATTATTTGCT CTTCTTATGT ATGGTAGAAT AAAGTTAGTA  
3480

TTAAAAAAGA TTGTGATTTG CTGCATATGT ATCAAAAAGA GTCCTAATAT TTGTATCTAT  
3540

AAATAAGGTG CCTTCTAGTG AAATTATACA AATAATAATT TGGAGTGTAT TGTTCCTTCT  
3600

CATGTAATTT AACTTTTAAG TATCTTACTT TACAATATAC TGTTCCTTA TTGAACATAT  
3660

TGAGTGATAT ATTGACTCAA T 3681

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 22 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA - page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CATTCATCTC TTCAATCTTT TG 22

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA (SEQ3) page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTAATTCT TGGTAAAGTG TTTCC 26